

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to the applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Ms. Brenna Brock on 8/20/2008.

3. Please amend paragraph 65 of the specification as follows:

[0065] The program instructions and data implementing application 12 and/or clustering software 670, as well as application-specific information 650, can be stored on various computer readable storage media such as memory 604. In some embodiments, such software is stored on a computer readable storage medium such as a CD (Compact Disc), DVD (Digital Versatile Disc), hard disk, optical disk, tape device, floppy disk, and the like). In order be executed by processor 602, the instructions and data implementing application 12 and clustering software 670 are loaded into memory 604 from the other computer readable storage medium. Such instructions and/or data can also be transferred to node 10 for storage in memory 604 via a network such as the Internet or upon a carrier medium. ~~In some embodiments, a computer readable medium~~

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~~is a carrier medium such as a network and/or a wireless link upon which signals such as electrical, electromagnetic, or digital signals, on which the data and/or instructions implementing application-specific information 650, application 12, and/or clustering software 670 are encoded, are conveyed.~~

4. Please replace all of the claims with the following claims:

1. (Currently Amended) A method comprising:
executing a first application on a cluster, the cluster comprising a plurality of nodes; and
subsequent to the cluster being partitioned into a plurality of sub-clusters, a first one of the sub-clusters executing the first application, wherein
a second one of the sub-clusters is capable of executing a second application,
the first application executes on a first logical cluster, ~~and~~
if each of the nodes participating in the first logical cluster is included in the first one of the sub-clusters subsequent to the cluster being partitioned, the first one of the sub-clusters automatically wins ownership of the first logical cluster; and
subsequent to the first one of the sub-clusters winning ownership of the first logical cluster, one of the nodes is not allowed to join the first logical cluster unless the one of the nodes is comprised in the first one of the sub-clusters.

2. (Canceled)

3. (Canceled)
4. (Original) The method of claim 1, further comprising:
executing a plurality of applications on the cluster, the plurality of applications
comprising the first application and the second application; and
subsequent to the cluster being partitioned into the plurality of sub-clusters, the
second one of the sub-clusters executing the second application.
5. (Original) The method of claim 4, further comprising:
the first one of the sub-clusters winning ownership of a logical cluster on which
the first application is executed, wherein
prior to the first one of the sub-clusters winning ownership of the logical
cluster, more than one of the sub-clusters each included a node
that participated in the logical cluster.
6. (Original) The method of claim 5, further comprising:
at least one of the nodes comprised in the logical cluster storing configured
logical cluster membership information, which identifies which of the
nodes were originally included in the logical cluster by an administrator of
the cluster, and storing current logical cluster membership information,
which identifies which of the nodes are included in the logical cluster
subsequent to the first one of the sub-clusters winning ownership of the
logical cluster.
7. (Original) The method of claim 6, further comprising:
in response to communication being reestablished between the sub-clusters, one
or more nodes automatically rejoining the logical cluster, wherein
the one or more nodes are identified in the configured logical cluster
membership information but not identified in the current logical
cluster membership information.

8. (Original) The method of claim 5, further comprising:
a sub-cluster of the more than one of the sub-clusters continuing to execute a third application of the applications subsequent to the first one of the sub-clusters winning ownership of the logical cluster on which the first application is executed.
9. (Original) The method of claim 5, further comprising:
selecting the first one of the sub-clusters to win ownership of the logical cluster based on application-specific information associated with the first application.
10. (Original) The method of claim 9, wherein
the application-specific information comprises information identifying each node configured to participate in the logical cluster on which the first application is executed.
11. (Original) The method of claim 9, wherein
the application-specific information comprises information indicating that the first application is dependent on a third application of the applications; and
the first one of the sub-clusters comprises a node that is configured to execute the third application.
12. (Currently Amended) A method comprising:
detecting that a cluster has been partitioned into a plurality of sub-clusters,
wherein the cluster executes ~~executing~~ one or more applications, and
wherein one of the plurality of sub-clusters comprises ~~comprising~~ a node;
and
determining whether the node can execute a first one of the applications based on application-specific information associated with the first one of the

applications, wherein the application-specific information identifies which nodes are part of a logical cluster on which the first one of the application is executing, and wherein the determining comprises determining that the node can execute the first one of the applications if, subsequent to the cluster being partitioned, each of the nodes participating in the logical cluster is included in the one of the sub-clusters.

13. (Canceled)

14. (Canceled)

15. (Original) The method of claim 12, wherein the determining whether the node can execute the first one of the applications comprises:

accessing a coordinator resource if a second node in another one of the sub-clusters is part of a logical cluster on which the first one of the applications is executing.

16. (Original) The method of claim 12, wherein
the application-specific information identifies whether the first application is
dependent on a second application,
the application-specific information indicates whether the node is configured to
execute the second application.

17. (Original) The method of claim 12, further comprising:
determining whether the node can execute a second application of the
applications independently of determining whether the node can execute
the first application.

18. (Currently Amended) A computer system comprising:
a processor; and

memory coupled to the processor, wherein the memory stores program instructions executable by the processor to:

detect that a cluster has been partitioned into a plurality of sub-clusters, wherein the cluster executes ~~executing~~ one or more applications, and wherein one of the plurality of sub-clusters comprises ~~comprising~~ a node; and determine whether the node can execute a first one of the applications based on application-specific information associated with the first one of the applications, wherein the application-specific information identifies which nodes are part of a logical cluster on which the first one of the application is executing, and wherein the determining comprises determining that the node can execute the first one of the applications if, subsequent to the cluster being partitioned, each of the nodes participating in the logical cluster is included in the one of the sub-clusters.

19. (Canceled)

20. (Currently Amended) The node of claim 18 ~~49~~, wherein the program instructions are executable to:

access a coordinator resource if a second node in another one of the sub-clusters is part of the logical cluster.

21. (Original) The node of claim 18, wherein the application-specific information identifies whether the first application is dependent on a second application, the application-specific information indicates whether the node is configured to execute the second application.

22. (Original) The node of claim 18, wherein

the cluster manager is configured to determine whether the node can execute a second application of the applications independently of determining whether the node can execute the first application.

23. (Currently Amended) A computer readable storage medium comprising program instructions executable to:

detect that a cluster has been partitioned into a plurality of sub-clusters, wherein the cluster executes ~~executing~~ one or more applications, and wherein one of the plurality of sub-clusters comprises ~~comprising~~ a node; and determine whether the node can execute a first one of the applications based on application-specific information associated with the first one of the applications, wherein the application-specific information identifies which nodes are part of a logical cluster on which the first one of the application is executing, and wherein the determining comprises determining that the node can execute the first one of the applications if, subsequent to the cluster being partitioned, each of the nodes participating in the logical cluster is included in the one of the sub-clusters.

24. (Currently Amended) The computer readable storage medium of claim 23, wherein

the application-specific information identifies which nodes in the cluster are part of a logical cluster on which the first application is executing.

25. (Currently Amended) The computer readable storage medium of claim 23, wherein the program instructions are executable to:

access a coordinator resource if a second node in another one of the sub-clusters is part of the logical cluster.

26. (Currently Amended) The computer readable storage medium of claim 23, wherein the program instructions are executable to:

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determine whether the node can execute a second application of the applications independently of determining whether the node can execute the first application.

27. (Currently Amended) A system comprising:

~~a network interface means for communicating with a plurality of nodes of a cluster;~~

means for detecting that said cluster has been partitioned into a plurality of sub-clusters, wherein the cluster ~~executes~~ ~~executing~~ one or more applications, and wherein one of the sub-clusters ~~comprises~~ ~~comprising~~ a node; and

means for determining whether the node can execute a first one of the applications based on the application-specific information associated with the first one of the applications, wherein the application-specific information identifies which nodes are part of a logical cluster on which the first one of the application is executing, and wherein the determining comprises determining that the node can execute the first one of the applications if, subsequent to the cluster being partitioned, each of the nodes participating in the logical cluster is included in the one of the sub-clusters; and
a computer readable storage medium for storing the application-specific configuration information.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MengYao Zhe whose telephone number is 571-272-6946. The examiner can normally be reached on Monday Through Friday, 10:00 - 8:00 EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Meng-Ai An can be reached at 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Meng-Ai An/

Supervisory Patent Examiner, Art Unit 2195